

Parathyroid Hormone (PTH) Immunostain, Technical Component Only

### Overview

#### **Useful For**

Identification of parathyroid glands

#### **Reflex Tests**

Test Id	Reporting Name	Available Separately	Always Performed
IHTOI	IHC Initial, Tech Only	No	No
IHTOA	IHC Additional, Tech Only	No	No

## **Testing Algorithm**

For the initial technical component only immunohistochemical (IHC) stain performed, the appropriate bill-only test ID will be reflexed and charged (IHTOI). For each additional technical component only IHC stain performed, an additional bill-only test ID will be reflexed and charged (IHTOA).

#### **Method Name**

Immunohistochemistry (IHC)

## **NY State Available**

Yes

## **Specimen**

## Specimen Type

**TECHONLY** 

## Ordering Guidance

This test includes only technical performance of the stain (no pathologist interpretation is performed). If diagnostic consultation by a pathologist is required order PATHC / Pathology Consultation.

## **Shipping Instructions**

Attach the green "Attention Pathology" address label (T498) and the pink Immunostain Technical Only label included in the kit to the outside of the transport container.

## **Specimen Required**

Supplies: Immunostain Technical Only Envelope (T693)

**Specimen Type:** Tissue

Container/Tube: Immunostain Technical Only Envelope

Preferred: 2 Unstained positively charged glass slide (25- x 75- x 1-mm) per test ordered; sections 4-microns thick



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Acceptable: Formalin-fixed, paraffin-embedded tissue block

## **Digital Image Access**

- 1. Information on accessing digital images of immunohistochemical (IHC) stains and the manual requisition form can be accessed through this website: <a href="https://news.mayocliniclabs.com/pathology/digital-imaging/">https://news.mayocliniclabs.com/pathology/digital-imaging/</a>
- 2. Clients ordering stains using a manual requisition form will not have access to digital images.
- 3. Clients wishing to access digital images must place the order for IHC stains electronically. Information regarding digital imaging can be accessed through this website: <a href="https://news.mayocliniclabs.com/pathology/digital-imaging/#section3">https://news.mayocliniclabs.com/pathology/digital-imaging/#section3</a>

### **Forms**

If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:

- -Immunohistochemical (IHC)/In Situ Hybridization (ISH) Stains Request (T763)
- -Renal Diagnostics Test Request (T830)

## Reject Due To

Wet/frozen	Reject
tissue	
Cytology	
smears	
Nonformalin	
fixed tissue	
Nonparaffin	
embedded	
tissue	
Noncharged	
slides	
ProbeOn slides	

## **Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
TECHONLY	Ambient (preferred)		
	Refrigerated		

## Clinical & Interpretive

### **Clinical Information**

Parathyroid hormone staining is useful in identifying parathyroid glands in cases of hyperparathyroidism. Hyperproduction of parathyroid-like hormone may occur in association with lung tumors; such tumors may have reactivity with parathyroid hormone antibodies.

## Interpretation



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This test does not include pathologist interpretation, only technical performance of the stain. If interpretation is required, order PATHC / Pathology Consultation for a full diagnostic evaluation or second opinion of the case.

The positive and negative controls are verified as showing appropriate immunoreactivity. If a control tissue is not included on the slide, a scanned image of the relevant quality control tissue is available upon request; call 855-516-8404.

Interpretation of this test should be performed in the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

#### Cautions

Age of a cut paraffin section can affect immunoreactivity. Stability thresholds vary widely among published literature and are antigen dependent. Best practice is for paraffin sections to be cut within 6 weeks.

#### Clinical Reference

- 1. Matsushita H, Usui M, Hara Y, et al. Co-secretion of parathyroid hormone and parathyroid-hormone-related protein via a regulated pathway in human parathyroid adenoma cells. Am J Pathol. 1997;150(3):661-871
- 2. Oka T, Yoshioka T, Shrestha GR, et al. Immunohistochemical study of nodular hyperplastic parathyroid glands in patients with secondary hyperparathyroidism. Virchows Arch A Pathol Anat Histopathol. 1988;413(1):53-60
- 3. Wick MR, Ritter JH, Humphrey PA, Nappi O. Clear cell neoplasms of the endocrine system and thymus. Semin Diagn Pathol. 1997;14(3):183-202
- 4. Sass MR, Wewer Albrechtsen NJ, Pedersen J, et al. Secretion of parathyroid hormone may be coupled to insulin secretion in humans. Endocr Connect. 2020;9(7):747-754. doi:10.1530/EC-20-0092
- 5. Magaki S, Hojat SA, Wei B, So A, Yong WH. An introduction to the performance of immunohistochemistry. Methods Mol Biol. 2019;1897:289-298. doi:10.1007/978-1-4939-8935-5\_25

## **Performance**

## **Method Description**

Immunohistochemistry on sections of paraffin-embedded tissue. (Unpublished Mayo method)

## **PDF Report**

No

## Day(s) Performed

Monday through Friday

#### Report Available

1 to 3 days

### **Specimen Retention Time**

Until staining is complete.

### Performing Laboratory Location



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Rochester

## Fees & Codes

## **Fees**

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact <u>Customer Service</u>.

## **Test Classification**

This test has been cleared, approved, or is exempt by the US Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

## **CPT Code Information**

88342-TC, primary 88341-TC, if additional IHC

#### **LOINC®** Information

Test ID	Test Order Name	Order LOINC® Value
PTH	Parathyroid Hormone IHC, Tech Only	Order only;no result

Result ID	Test Result Name	Result LOINC® Value
70856	Parathyroid Hormone IHC, Tech Only	Bill only; no result